	Application No.	Applicant(s)
Notice of Allowability	10/521,377	KORNEK ET AL.
	Examiner	Art Unit
	Chukwuma O. Nwaonicha	1621
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 18 October 2006.	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
2. The allowed claim(s) is/are <u>9-16 and 18-22 (now renumber</u>	red 1-13, respectively).	
 Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply (IENT of this application.	complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 	itted. Note the attached EXAMINER' es reason(s) why the oath or declara	S AMENDMENT or NOTICE OF tion is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawin he header according to 37 CFR 1.121(c	igs in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Page	etent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	• •
	Paper No./Mail Date	ė
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🗌 Examiner's Amendm	nent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material		nt of Reasons for Allowance
	9. Other THU SUPERVISO TECHNO	RMAN K. PAGE BY PAFENT EXAMINER LOGY CENTER 1600

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DETAILED ACTION

Current Status

- 1. This action is responsive to Applicants' amendment of 18 October 2006.
- Receipt and entry of Applicants' amendment is acknowledged.
- 3. Claims 9-16 and 18-22 are under active consideration in the instant application.
- 4. The rejection of 9-16 and 18-22 under 35 U.S.C 103 as being unpatentable over Tonomura et al., {US 6,359,161} for the reasons set forth in the previous Office Action of 7/18/05 has been withdrawn because Tonomura et al. do not teach all the limitations of the claimed invention.
- 5. The obviousness-type double patenting rejection of claims 9-16 and 18-22 is withdrawn because applicants have filed a Terminal Disclaimer.

Allowed Claims

Claims 9-16 and 18-22 are allowable over the prior art of record.

Reason For Allowance

The following is an examiner's statement of reasons for allowance:

Applicants claim a process of continuous preparation of organo silane by reacting silane with an alkene in the presence of an iridium catalyst. The process is carried out at a temperature of about 30°C to about 200°C and the reaction pressure is 0.11 – 50.0

Mpa. The process employs a co-catalyst with a concentration of 1 x 10⁻⁶ to 1 mole %, based on the silane component; and all the variables are as defined in the claims. The process was neither found to be obvious nor anticipated by the prior art of record.

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The closest prior art is Tonomura et al., {US 6,359,161}. Tonomura et al. teach a process for preparing halopropyldimethylchlorosilane by reacting dimethylchlorosilane with an allyl halide in the presence of an iridium catalyst. The reaction is effected in the presence of an internal olefin compound, typically, 1,5-cyclooctadiene. The internal olefin compound suppresses deactivation of the iridium catalyst during reaction. Using a smaller amount of the iridium catalyst, the process produces the halopropyldimethylchlorosilane in high yields. The reaction was conducted at about 0°C to about 200°C and catalyst concentration of 0.000001 to 0.1 mole. The co-catalyst employed is 0.004 mole.

Applicants' process of continuous preparation of organo silane by reacting silane with an alkene in the presence of an iridium catalyst differs from the prior art process in that applicants' employ a continuous reaction instead of batch reaction, and by employing a slight excess of alkene, applicants are able to increase the yield to very high values instead. Additionally, applicants process for the preparation of silane compound differ from Tonomura et al. process in that applicants employ a silane compound of Si-H while Tonomura et al. teach a process that employed a different silane compound of Si-C. The unexpected result and the use of different reagents are not readily apparent and would not have been suggested to one of ordinary skill.

All claims (9-16 and 18-22) are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on

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Statement of Reasons for Allowance".

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chukwuma O. Nwaonicha whose telephone number is

571-272-2908. The examiner can normally be reached on Monday thru Friday, 8:30am

to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thurman k. Page can be reached on 571-272-0602. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Chukwuma O. Nwaonicha, Ph.D.

Patent Examiner

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THURMAN K. PAGE SUPERVISORY PATENT EXAMINER

Thurman Page,

Supervisory Patent Examiner,

Technology Center 1600